

Abstract

A magnetic recording medium having a magnetic layer with an L_{10} structure and an easy magnetization axis lying about 35° out-of-plane of the magnetic layer is disclosed. This medium has very high coercivity (H_c) and anisotropy field (H_k), giving rise to improved thermal stability. Combined with improved writability of the canted magnetic easy axis, this media enables improved recording signal-to-noise ratio (SNR).